Mutation Research, 202 (1988) 447–449
Elsevier

Contents

Volume 202 (1988)

Review

Radiation sensitivity in retinoblastoma: current perspectives for cancer research on this disease (MTR 04652)
J. García Heras and I. Larripa (Argentina) 1

Research Papers

Heritable protein variants induced by exposure to ethylnitrosourea: Heritability, subcellular location, and tissue distribution (MTR 04626)
C.S. Giometti, M.A. Gemmell, S.L. Tollaksen and D. Grahn (U.S.A.) 9

Antimutagens against spontaneous and induced reversion of a *lacZ* frameshift mutation in *E. coli* K-12 strain ND-160 (MTR 04628)
C.H. Clarke and D.M. Shankel (Great Britain, U.S.A.) 19

Congenital defects in the offspring of male mice treated with ethylnitrosourea (MTR 04629)
T. Nagao (Japan) 25

Frameshift mutagenesis in *Escherichia coli* by reversible DNA intercalators: sequence specificity (MTR 04630)
B. René, C. Auclair, R.P.P. Fuchs and C. Paoletti (France) 35

Evolution of sister-chromatid exchanges (SCE) in rat bone marrow cells as a function of time after 2 Gy of whole-body neutron irradiation (MTR 04632)
J.L. Poncy, P. Fritsch and R. Masse (France) 45

A comparison of aberration distribution and cell-cycle progression in cells treated with bleomycin with those exposed to X-rays (MTR 04634)
A. Chatterjee and M.J. Raman (India) 51

Catalase inhibition by sulfide and hydrogen peroxide-induced mutagenicity in *Salmonella typhimurium* strain TA102 (MTR 04635)
J. Carlsson, E.H. Berglin, R. Claesson, M.-B.K. Edlund and S. Persson (Sweden) 59

The induction of reciprocal translocations in mouse germ cells by chemicals and ionizing radiations
I. Dose–response relationships and combined effects of bleomycin with thio-tepa and γ-rays (MTR 04636)
J.C. De Luca, F.N. Dulout and J.M. Andrieu (Argentina) 65

Influence of nalidixic acid on killing and mutation of V79 cells exposed to different damaging agents (MTR 04637)
R. Ghosh (Datta) and S.B. Bhattacharjee (India) 71

Detection of base mutations in genomic DNA using denaturing gradient gel electrophoresis (DGGE) followed by transfer and hybridization with gene-specific probes (MTR 04638)
A.-L. Børresen, E. Hovig and A. Brøgger (Norway) 77

Modification of DNA by mitomycin C in cancer patients detected by ^{32}P-postlabeling analysis (MTR 04639)
S. Kato, K. Yamashita, T. Kim, T. Tajiri, M. Onda and S. Sato (Japan) 85

Suppression of mitomycin C-induced micronuclei in mouse bone marrow cells by post-treatment with vanillin (MTR 04640)
T. Inouye, Y.F. Sasaki, H. Imanishi, M. Watanebe, T. Ohta and Y. Shirasu (Japan) 93

Spontaneous sister-chromatid exchange frequencies in human B and T lymphocytes at BrdU borderline concentrations for sister-chromatid differentiation (MTR 04641)
K. Miller (F.R.G.) 97

Public exposure to environmental tobacco smoke (MTR 04643)
G. Löfroth, P.I. Ling and E. Agurell (Sweden) 103

Simultaneous detection of DNA strand breaks and unscheduled DNA synthesis in mutagen-treated human lymphocytes in the absence of hydroxyurea (MTR 04644)
M. Holmberg, M. Lagerberg, B. Niejahr and L. Rödin (Sweden) 111

Presence of nitrosable mutagen precursors in cooked meat and fish (MTR 04646)
M. Yano, K. Wakabayashi, T. Tahira, N. Arakawa, M. Nagao and T. Sugimura (Japan) 119

Repair of sister-chromatid exchange-inducing lesions in mutagen-treated cultures of human whole blood and purified fresh or frozen lymphocytes (MTR 04647)
H. Murli, S.M. Galloway, J.L. Ivett, D.M. Parry and J.J. Mulvihill (U.S.A.) 125

0027-5107/88/$03.50 © 1988 Elsevier Science Publishers B.V. (Biomedical Division)

Binding of cisplatin to specific sequences of human DNA in vitro (MTR 04649)
K. Hemminki and W.G. Thilly (U.S.A) 133
Induction of specific-locus mutations in female mice by 1-ethyl-1-nitrosourea and procarbazine (MTR 04650)
U.H. Ehling and A. Neuhäuser-Klaus (F.R.G.) 139
The molecular nature of spontaneous and chemically induced mutations in the hypoxanthine–guanine phosphoribosyl transferase gene in rat liver epithelial cells (MTR 04653)
P. Armel and G.M. Williams (U.S.A.) 147
Modulating effects of β-naphthoflavone on the induction of SCEs by model compounds with emphasis on benzo[*a*]pyrene (MTR 04651)
W.M.F. Jongen, G.W. Sandker, M.P.H. Goertz, R.J. Topp and P.J. Van Bladeren (The Netherlands) 155
Curcumins as inhibitors of nitrosation in vitro (MTR 04654)
M. Nagabhushan, U.J. Nair, A.J. Amonkar, A.V. D'Souza and S.V. Bhide (India) 163
Effects of vinyl acetate and acetaldehyde on sperm morphology and meiotic micronuclei in mice (MTR 04655)
J. Lähdetie (Finland) 171
Suppression of UV mutagenicity by human interferon (MTR 04656)
N. Suzuki and H. Suzuki (Japan) 179
A genetic analysis of the adenine phosphoribosyl transferase locus in Chinese hamster V79-AP4 cells: relevance to mutagenesis studies (MTR 04657)
C.M. Colella, S. Simi, T. Van Boxel, D. Talarico, G. Della Valle, M.L. Carrozza, D. Fratta, T. Mariani, A. Piras, M. Simili and G. Rainaldi (Italy) 185
Structural requirement for the induction of the adaptive response in *Escherichia coli* among *N*-(substituted alkyl)-*N*-nitrosoureas (MTR 04658)
K. Takahashi, K. Kohda, T. Oh-hara, M. Sekiguchi and Y. Kawazoe (Japan) 193
In vivo mutant T cell frequency in atomic bomb survivors carrying outlying values of chromosome aberration frequencies (MTR 04659)
M. Hakoda, M. Akiyama, Y. Hirai, S. Kyoizumi and A.A. Awa (Japan) 203
γ-Ray-induced numerical and structural chromosome anomalies in mouse immature oocytes (MTR 04660)
C.S. Griffin and C. Tease (Great Britain) 209
Meiotic arrest and aneuploidy induced by vinblastine in mouse oocytes (MTR 04661)
A. Russo and F. Pacchierotti (Italy) 215
Effects of SOS and MucAB functions on reactivation and mutagenesis of M13 replicative form DNA bearing bulky lesions (MTR 04664)
C.B. Bennett, X. Luo, L.M. Refolo and M.Z. Humayun (U.S.A.) 223
Formation and removal of DNA adducts after treatment of Chinese hamster ovary cells with *N*-methyl- and *N*-ethyl-*N*-nitrosourea (MTR 04670)
H.W. Thielmann, C.H. Schröder and A.W. Hsie (F.R.G., U.S.A.) 235
Influence of inhibition of the metabolic activation on the mutagenicity of some nitrosamines, triazenes, hydrazines and seniciphylline in *Drosophila melanogaster* (MTR 04671)
J.A. Zijlstra and E.W. Vogel (The Netherlands) 251
Mutagenic activity and specificity of *N*-nitrosomethylaniline and *N*-nitrosodiphenylamine in Salmonella (MTR 04674)
M. Zielenska and J.B. Guttenplan (U.S.A.) 269

Special Issue

Role and Mechanisms of Inhibitors in Prevention of Mutation and Cancer

edited by Silvio De Flora

Editorial Announcement v

Preface (MTR 02501)
F.H. Sobels (The Netherlands) 277

Editorial
Problems and prospects in antimutagenesis and anticarcinogenesis (MTR 02502)
S. De Flora (Italy) 279

Mechanisms of inhibitors of mutagenesis and carcinogenesis. Classification and overview (MTR 02503)
S. De Flora and C. Ramel (Italy, Sweden) 285
Inhibitors of endogenous nitrosation. Mechanisms and implications in human cancer prevention (MTR 02504)
H. Bartsch, H. Ohshima and B. Pignatelli (France) 307
Mechanisms of inhibition of *N*-nitroso compounds-induced mutagenicity (MTR 02505)
T. Gichner and J. Velemínský (Czechoslovakia) 325
Antimutagenesis by shift in monooxygenase isoenzymes and induction of epoxide hydrolase (MTR 02506)
F. Oesch (F.R.G.) 335
Protective role of glutathione and glutathione transferases in mutagenesis and carcinogenesis (MTR 02507)
B. Ketterer (Great Britain) 343
The nature of oxidants and antioxidant systems in the inhibition of mutation and cancer (MTR 02508)
P. Hochstein and A.S. Atallah (U.S.A.) 363
Mechanisms of inhibition of free-radical processes in mutagenesis and carcinogenesis (MTR 02509)
M.G. Simic (U.S.A.) 377
Antimutagenesis by factors affecting DNA repair in bacteria (MTR 02510)
Y. Kuroda and T. Inoue (Japan) 387
Anticarcinogenic potential of DNA-repair modulators (MTR 02511)
D.A. Boothman, R. Schlegel and A.B. Pardee (U.S.A.) 393
Strategies for inhibiting multistage carcinogenesis based on signal transduction pathways (MTR 02512)
I.B. Weinstein (U.S.A.) 413
Anticarcinogenesis mechanisms, as evaluated in the multistage mouse skin model (MTR 02513)
J.B. Rotstein and T.J. Slaga (U.S.A.) 421
Dietary inhibitors of mutagenesis and carcinogenesis (MTR 02514)
H. Hayatsu, S. Arimoto and T. Negishi (Japan) 429

[*end of special issue*]

Contents, Vol. 202 (1988) 447